

## CLAIMS :

1. A repetitive controller having the form of a memory loop fed with a periodic signal of period  $NT$  and in which the memory size includes  $N/2$  memory elements, the feedback connection is negative and a factor of  $-1/2$  is provided at the output of the memory loop.
2. In a recording and reproducing apparatus including a head for recording data on a recording medium or reproducing the recorded data from said recording medium, a drive servo system for said recording medium, said system comprising a disturbance compensation module for compensating for the eccentricity of the recording medium, said module using iterative learning control and itself comprising a repetitive controller in the form of a memory loop fed with a periodic signal of period  $NT$  and in which the memory size includes  $N/2$  memory elements, the feedback connection is negative and a factor of  $-1/2$  is provided at the output of the memory loop.